



**IMPORTANT
MODIFICATIONS TO THE OPERATION OF THIS
EQUIPMENT MAY VOID YOUR AUTHORITY TO USE THIS
PRODUCT UNDER THE EQUIPMENT AUTHORISATION
GRANTED BY THE REGULATING AGENCIES.**

Bowens International Limited
Q89-5150

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

PULSAR RADIO TRIGGER INSTRUCTIONS BWL-0340/1 BOWENS INTERNATIONAL LIMITED

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BOWENS



User Guide



Try this first:

Check the indicator on each unit is 'single flashing' indicating that the unit is ON and the battery is OK.

Set both transmitter and receiver to studio 'A' and channel 'All'

Turn all units OFF then back ON.

Note:

Units may not operate correctly if used in very close proximity to each other.

Indicator on unit does not light when test button pressed.

Try replacing batteries.

Make sure power switch is set to either Transmit or Receive.

Remove external power connector, to use internal batteries.

Unit does not receive code.

Set both transmitter and receiver channel select to All.

Try using units in another area away from metal objects.

Unit does not trigger device.

Try the test button on the receiver to confirm electrical connection.

Check cable connections.

Try the alternative Sync output of the **Pulsar**.

Unit is continually transmitting.

Make sure test button is not obstructed.

Try disconnecting external trigger sources.

Check Battery condition.

Turn **Pulsar** OFF then back ON.

In the unlikely event of a problem or fault with your **Pulsar** please contact Bowens for additional help or to arrange a repair.

Congratulations on choosing the **Bowens Pulsar** Radio Trigger.

Designed using the latest technology to produce a unit that is simple to operate, **Pulsar** is capable of triggering the widest range of photographic equipment including studio flash, cameras and light meters.

Pulsar can be used as either a Transmitter or Receiver allowing the ability to quickly change your lighting settings. You can easily substitute one **Pulsar** with another by simply changing its mode or Channel settings. This is just one example of the versatility of **Pulsar**. In order to fully understand the many studio uses for your new **Pulsar** Radio Trigger, please take a moment to read through this user guide.

Included in box:

- 1 x Instruction Manual
- 1 x **Pulsar**
- 2 x AAA Batteries
- 1 x Fixing Bracket
- 1 x Elastic Cord with Ends
- 4 x Rubber Feet
- 1 x Sync Cord
- 1 x Jack Plug Adapter

Description	Page
Introduction	3
Channel Codes & Switches	4
Power Requirements	5
Mounting Bracket	6
Mounting Pulsar	7
Orientation	8
Using Channels	9
Metering Flash Settings	10
Studio Operation	11
Standard Connection	12
Advanced Connection	13
Troubleshooting	14
Specifications	15

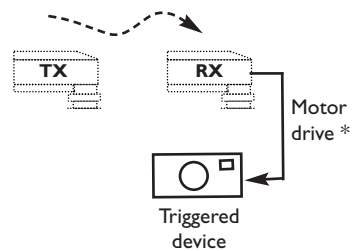
Batteries	2 x AAA ,MN2400 or LR03
Battery Life Approx	(Before low battery indication)
Transmit Mode:	Alkaline.... 560 Hours Nicad..... 350 Hours
Receive Mode:	Alkaline.... 224 Hours Nicad..... 140 Hours
Typical Use:	Alkaline.... 200 Hours Nicad..... 125 Hours
Sync Voltage Out:	3.3V max
Size	(L) 90mm x (W) 49mm x (H) 44mm (Typical dimensions including hot shoe)
Weight	122g (4.3 oz)
Range	100m (333 ft)
Frequency	433 MHz (Europe & USA)
Conformity	FCC part 15 - CE
Trigger Timings	1/2000 500µS Delay Max
Fixing Methods	Camera - Pulsar Hotshoe attachment. Other - Fixing adapter provided.
Accessories	Pulsar External Power Supply. Motor drive Camera Sync-Cord. QUADX 5V to 3V Adapter. For details contact your distributor.

Due to our policy of constant product improvement Bowens International Limited reserve the right to change equipment specification without notice.



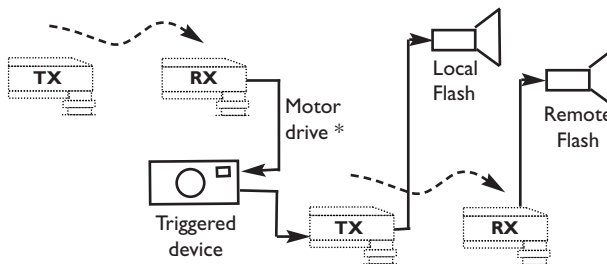
Sync-In and hot shoe Sync-In are internally connected.
Sync-Out is designed for camera trigger although will also trigger flash.
PC Sync-Out is used for flash trigger.

Triggering Remote Camera



* Optional 'Motor Drive' cable not included. This cable is camera specific. Please consult your camera manual for details or contact your distributor.

Triggering Remote Camera and Flash Sources



There may be a delay from pressing the button to the picture being taken; this is because most cameras have a wakeup/focus delay.

Standard Connection

Receiver Connection

Receive Mode



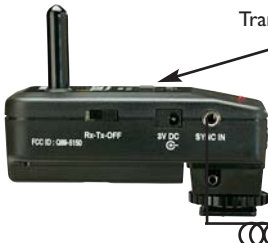
To Flash Equipment

Jack Socket Adapter

Transmitter Connections

Transmit Mode

1. PC Connector



To Camera

2. Connection made by Hot Shoe Attachment.



Warning:

Do not connect a single **Pulsar** to more than one flash unit. Do not connect to older flash equipment that use a 25V or greater sync voltage.

Power Requirements

If the unit is left for long periods of time, the batteries should be removed.

When the indicator 'double flashes' the batteries should be changed at the earliest opportunity.



1. Remove battery cover.
2. Fit batteries observing correct polarity.
3. Replace cover.
4. Set mode switch to either Transmit or Receive.
5. Press Test button check indicator blinks.

3V External supply if connected will disconnect internal batteries.
Centre pin is +V

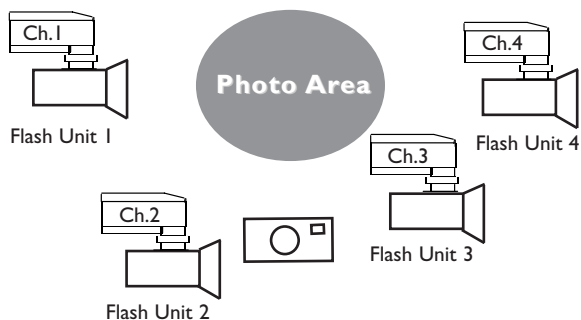
Warning:

Use an approved external supply to avoid damage to **Pulsar**.
Contact your distributor for availability and pricing information.

Metering Flash Settings

To measure the settings of multiple flash equipment using a light meter follow this example.

Example:- Using 4 flash units each with a **Pulsar** set as receiver.



To take a reading from each flash unit, first set each receiver to a different channel.

Using a light meter connected to a **Pulsar** set to transmitter mode (See Section 10.0 for connection information).

Set **Pulsar** transmitter to CH1 Measure flash 1 power
 Set **Pulsar** transmitter to CH2 Measure flash 2 power
 Set **Pulsar** transmitter to CH3 Measure flash 3 power
 Set **Pulsar** transmitter to CH4 Measure flash 4 power

Finally to take a reading from all flash units combined, set the transmitter channel to 'All' to allow all flashes to be fired together.

Mounting Pulsar

Positioning Pulsar

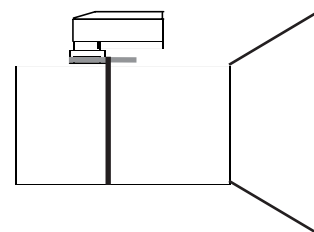
Make sure unit is firmly secured.

The higher the transmitter usually the better.

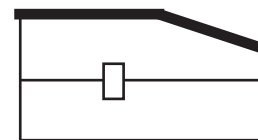
Keep away from large metal objects.

Keep away from devices susceptible to radio interference.

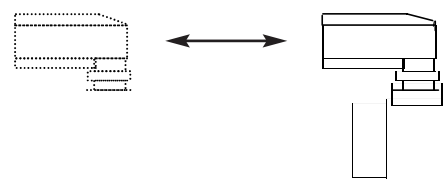
Keep away from areas of physical damage, including hot surfaces.



Suggested Monobloc Attachment

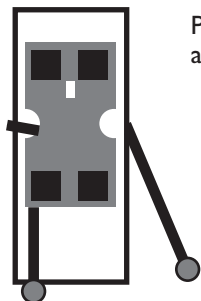
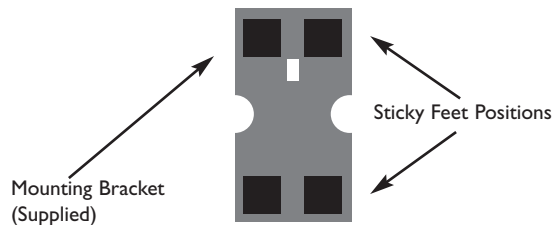


Suggested Generator Attachment



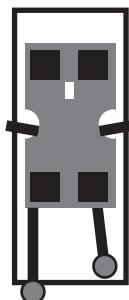
For camera fixing use hot shoe attachment

Mounting Bracket



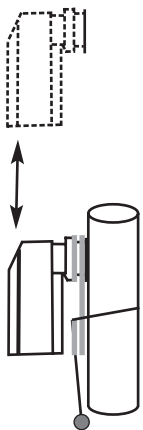
Place mounting bracket against suitable object.

Fix one end of cord using first tab. Loop free end around back of fixing.



Fix cord by pulling tight around second tab.

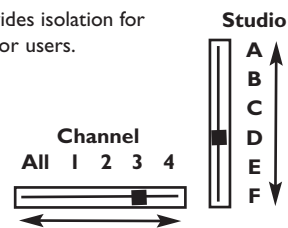
Finally insert **Pulsar** into mounting bracket & tighten thumb knob to secure.



Studio Operation

The Studio selector provides isolation for separate lighting studios or users.

The Channel Selector provides a unique ID for each flash device.



Example.

User 1 Studio		I S O L A T I O N	User 2 Studio		I S O L A T I O N	User 3 Studio	
A-All	A-All		B-I	B-All		C-All	C-All
	A-1			B-1			C-1
	A-2						C-2
	A-3						C-3
	A-4						

This feature can also be used to set up a number of completely separate lighting conditions just by moving the studio selector switch.

Note:

A model is also available without the Studio selector function. If using both models in the same studio and triggering is required, always set your **Pulsar** to Studio F.



Orientation

The **Pulsar** antenna should be kept clear of metal objects to ensure reliable operation.



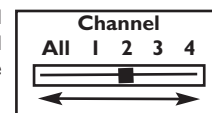
Use the test button to confirm operation of the units in the chosen configuration before taking photographs.

Due to the way radio signals are transmitted, moving a few centimeters in either direction can make a large difference.

For maximum distance the Transmitter and Receiver should be orientated in the same direction, although this is not essential.

Using Channels

The Channel selector can be used to control various lighting equipment by setting the channel switch on the Transmitter and receiver to the same channel.



A **Pulsar** in 'transmitter' mode set to All will trigger all **Pulsars** in 'receiver' mode in that studio (fig 1.0).

A **Pulsar** in 'receiver' mode set to All will be triggered by any **Pulsar** in 'transmitter' mode in that studio (fig 1.0).

A **Pulsar** in 'transmitter' mode set to a specific channel (i.e. 2) will trigger any **Pulsar** in 'receiver' mode set to the same channel and also any **Pulsars** set to receive 'All' (fig 1.1).

Fig 1.0

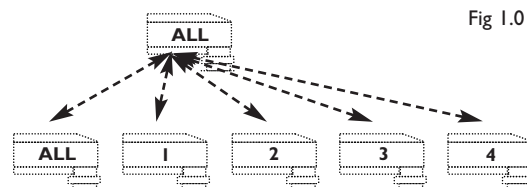


Fig 1.1

